From the INTERNATIONAL PRELIMINAR

AMINING AUTHORITY



PCT

Zacco Norway AS P.O. Box 765, Sentrum N-0106 Oslo Norge

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

Norge -	(PCT Rule 66)							
 -	Date of mailing (day/month/year) 0 9 -03- 2004							
Applicant's or agent's file reference	REPLY DUE within 60 days from							
E27757 RLI/JOB	the above date of mailing							
International application No. International filing date								
PCT/NO 2003/000084 11.03.2003	14.03.2002							
International Patent Classification (IPC) or both national classification and IPC								
A23K 1/00, C11B 5/00, A23D 9/06								
Applicant .								
Norsk Hydro ASA et al								
1. The written opinion established by the International	Searching Authority:							
	is not							
considered to be a written opinion of the Internation:	Li							
	ains indications relating to the following items:							
Box No. II Priority								
Box No. III Non-establishment of opinion with r	regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unity of invention								
Box No. V Reasoned statement under Rule 66.2 citations and explanations supporting	2(a)(ii) with regard to novelty, inventive step or industrial applicability; g such statement							
Box No. VI Certain documents cited								
Box No. VII Certain defects in the international a	application							
Box No. VIII Certain observations on the internati	ional application							
3. The applicant is hereby invited to reply to this opinion.								
grant an extension, see Rule 66.2(e).	nt may, before the expiration of that time limit, request this Authority to							
For the form and the language of the amendmer	submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. the form and the language of the amendments, see Rules 66.8 and 66.9.							
For an informal communication with the exami For an additional opportunity to submit amendn	er's obligation to consider amendments and/or arguments, see Rule 66.4bis. communication with the examiner, see Rule 66.6. al opportunity to submit amendments, see Rule 66.4.							
If no reply is filed, the international preliminary examina	If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.							
The final date by which the international preliminary report (Chapter II of the PCT) must be established according to Re	t on patentability ule 69.2 is: 14.07.2004							

Name and mailing address of the IPEA/SE
Patent- och registreringsverket
Box 5055
S-102 42 STOCKHOLM
Per Renström/EÖ
Telephone No. 46 8 667 72 88

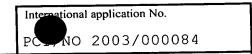
Authorized officer

Per Renström/EÖ
Telephone No. 46 8 782 25 00

Form PCT/IPEA/408 (cover sheet) (January 2004)

Box	No. I	Bas	is of the opinion
1.	With r	regard to it was file	the language, this opinion has been established on the basis of the international application in the language in ed, unless otherwise indicated under this item.
		This opin	nion is based on a translation from the original language into the following language, the language of a translation furnished for the purposes of:
. •			international search (under Rules 12.3 and 23.1(b))
		Ħ	publication of the international application (under Rule 12.4)
-,		Ħ	international preliminary examination (under Rules 55.2 and/or 55.3)
2.	which	regard to have bee	the elements of the international application, this opinion has been established on the basis of (replacement sheets on furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as d."):
-	\boxtimes	the inte	rnational application as originally filed/furnished
	同	the desc	cription:
-		pages	as originally filed/furnished
		pages	received by this Authority on
		pages	received by this Authority on
		the clai	ms:
		pages	as originally filed/furnished
		pages	as amended (together with any statement) under Article 19
		pages	received by this Authority on
		pages	received by this Authority on
		the drav	wings:
		pages	as originally filed/furnished
		pages	received by this Authority on
		pages	received by this Authority on
		a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The am	nendments have resulted in the cancellation of:
			the description, pages
			the claims, Nos.
			the drawings, sheets/figs
		Ħ	the sequence listing (specify):
			any table(s) related to the sequence listing (specify):
4.			pinion has been established as if (some of) the amendments had not been made, since they have been considered to ond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
			the description, pages
		同	the claims, Nos.
		Ħ	the drawings, sheets/figs
		H	
		H	the sequence listing (specify):
			any table(s) related to the sequence listing (specify):

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Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
the e	entire international application			
clain	ns Nos. 1-6			
because:				
ÎП.	11. A second and incident or the said claims Nos			
relat	said international application, or the said claims Nos. te to the following subject matter which does not require an international preliminary examination (specify):			
-				
-				
the e	description, claims or drawings (indicate particular elements below) or said claims Nos. 1-6 so unclear that no meaningful opinion could be formed (specify):			
See Bo	ox VIII.			
	·			
the	claims, or said claims Nos. are so inadequately supported			
by t	the description that no meaningful opinion could be formed.			
no i	international search report has been established for said claims Nos.			
the Adi	nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the ministrative Instructions in that:			
the	written form has not been furnished			
	does not comply with the standard			
the	computer readable form has not been furnished			
	does not comply with the standard			
the the	tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with technical requirements provided for in the Annex C-bis of the Administrative Instructions.			
Sec	e Supplemental Box for further details.			

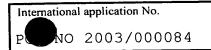
Box	Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	1. Statement					
-	Novelty (N)	Claims Claims	1-6 No			
- -	Inventive step (IS)	Claims Claims	1-6 No			
	Industrial applicability (IA)	Claims Claims				
2.	Citations and explanations:	Same	ne nothold som i den norske sak			
	Relevant documents	(from t	the International Search Report)			
	on the developm of Fish Disease D4: Olsen R.E. et a polyunsaturated fatty acid compiuvenile Arctic Physiology and 13-29. D5: Waagbø, R.; "Timmune system"	ment of es, 23, al; "The d fatty position char, Biochemen atlan	e perclo-1) aperdo-2) if luence of oxidized lipids in diets rainbow trout fry syndrome"; Journal 1 (January 2000), pages 7-14. e influence of temperature, dietary acids, α-tocopherol and spermine on and indices of oxidative stress in Salvelinus alpinus (L.)"; Fish mistry, 20, 1 (January 1999), pages et of nutritional factors on the atic salmon, Salmo salar L.: a and fisheries management, 25 (1994),			
	The present claims completely. For fu and examination, s	rther in	we not been searched or examined nformation regarding incomplete search			
	which feed compris and is characteriz oils and/or vegeta	es prote ed in tl ble oil:	elates to a feed for marine species, eins, lipids and optional components, hat the lipids are one or more marine s treated by urea and/or other amines dative degradation.			
	D1 (page 1, lines Examples; Amended	10-12; _] Claims	page 2, lines 4-10; page 3, lines 1-9; 1 and 8, pages 16-17) and D2 (page 1,			

lines 10-17; page 3, lines 8-9; page 4, lines 5-7; Examples;

Claims 1, 10 and 13, pages 11-12) describe methods for

.../...

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: \ensuremath{V} .

stabilising vegetable and animal oils against oxidation of fat components and/or pigments in the oils by treatment with urea (D1) and/or other amines or amides (D2). The documents also describe feeds for salmonids comprising proteins, lipids, pigments and optional components, which feeds are characterized in that the lipids are one or more marine oils and/or vegetable oils treated by urea (D1) and/or other amines or amides (D2).

Since the present claims do not exclude the presence of pigments in the feed, the invention according to claims 1-6 lacks novelty with regard to D1 and D2, taken separately. Regardless of this, since D1 and D2 not only concern protection of the pigments but also of the oils themselves, the invention according to claims 1-6 is considered to lack an inventive step with regard to D1/D2.

Furthermore attention is directed towards D3-D5, decribing the negative influence of dietary lipid oxidation on fish health.

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Present claims 1 - 6 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and / or disclosure within the meaning of Article 5 PCT is to be found for only a very small proportion of the compounds to which the present claims relate. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Consequently, the search and examination has been carried out only for those parts of the claims which appear to be supported and disclosed, namely those parts related to urea and the amines and amides in WO0146355 (page 5, Table 1), namely: allylurea, hexylamine, N-ethyldiisopropylamine, N,N'-dimethylurea, Oxamide and butyramide.